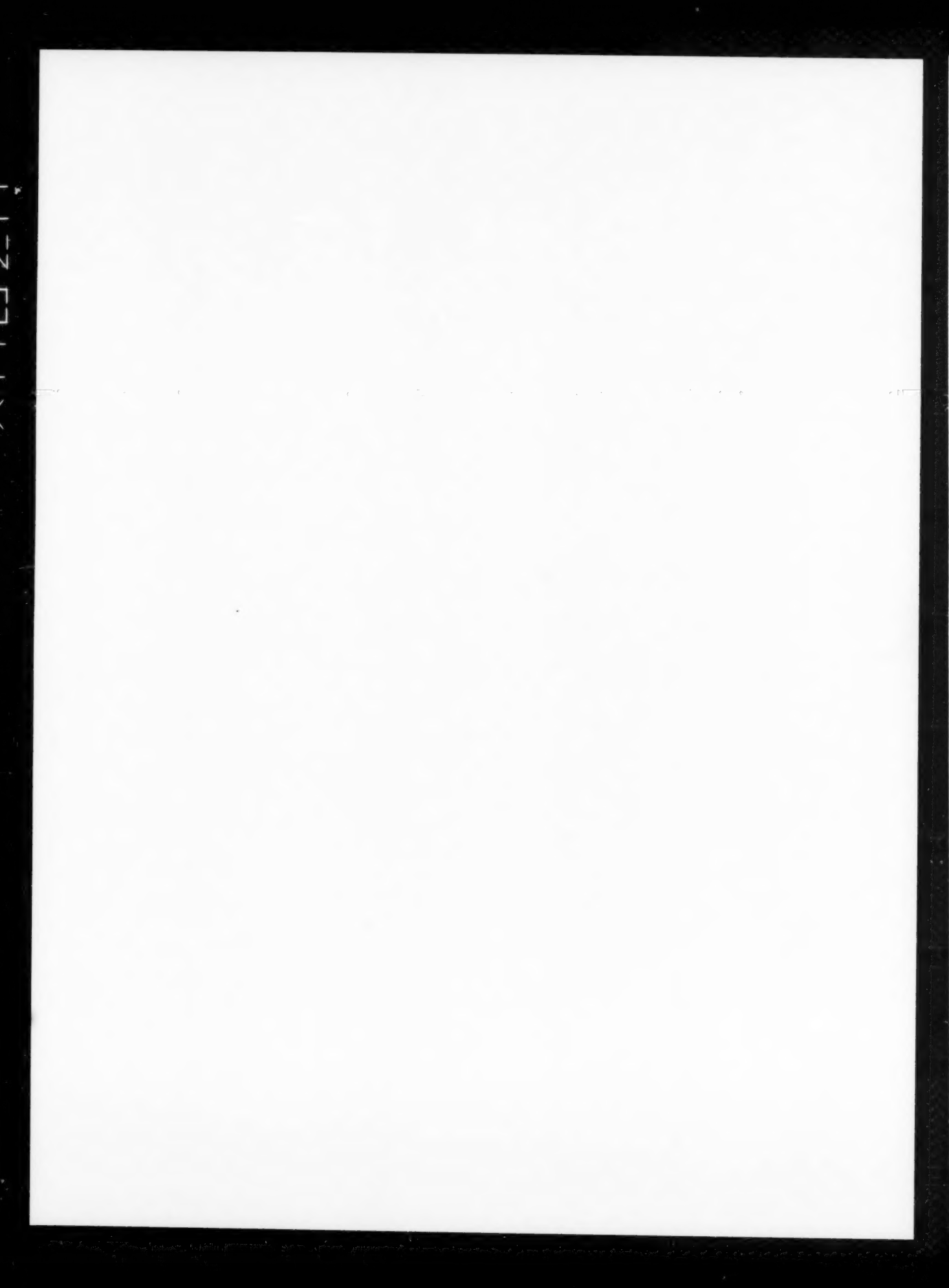


INDEX

MICROBIOLOGY

Volume 39, Numbers 1-6, 1970



MICROBIOLOGY

Volume 39, Numbers 1-6, 1970

(A translation of Mikrobiologiya)

A

Adamova, N. P. - 229
Agatov, P. A. - 882
Agre, N. A. - 589
Agre, N. S. - 79, 402, 671
Andreeva, E. A. - 233, 783
Andreeva, N. B. - 241
Anikina, A. P. - 547
Arkad'eva, G. E. - 339
Ashmarin, I. P. - 542
Askarova, S. A. - 202
Astaf'eva, É. N. - 894
Auerman, T. L. - 667
Avakyan, A. A. - 554, 744, 883
Azarova, G. G. - 758
Azova, L. G. - 43

B

Bagirov, V. I. - 606
Balashova, V. V. - 298
Ban'kovskaya, A. N. - 54
Bazenkova, M. B. - 352
Beker, M. E. - 630
Bekhtereva, M. N. - 63, 258,
335, 389, 517, 531, 675, 886
Belyaev, S. S. - 303
Belyaeva, M. I. - 912
Belyakova, L. A. - 162, 467
Belyanova, L. P. - 67
Bezborodov, A. M. - 271
Bezborodova, S. I. - 352, 643
Bilai, V. I. - 252
Blinov, N. O. - 736, 890
Bogdanova, S. L. - 536
Bolmyanskaya, E. V. - 682
Bondar', A. I. - 520
Bondarchuk, A. A. - 27
Borisova, L. N. - 585
Brundza, K. I. - 190
Bylinkina, V. N. - 807

C

Chebotarev, E. I. - 131
Chel'nyi, A. A. - 944

Cheremisinov, N. A. - 805
Chermenskaya, T. S. - 271
Cherni, N. E. - 298
Chernyad'ev, I. I. - 17
Chulkova, A. P. - 374, 525, 882
Chunderova, A. I. - 774

D

Danil'chik, N. I. - 909
Danilova, M. V. - 969
Dedyukhina, É. G. - 63
Denisova, S. V. - 849
Deshchits, L. A. - 925
Diepin'sh, G. K. - 630
Dimitrov, D. - 791
Doman, N. G. - 17, 872
Donets, A. T. - 258, 675, 886
Dormidoshina, T. A. - 331
Dorokhov, Yu. L. - 930
Dorokhova, L. A. - 79, 589
Dorosinskii, L. M. - 807
Dubrovin, V. N. - 229
Dvornikova, T. P. - 32

E

Efimochkina, E. F. - 621
Egorov, N. S. - 283, 581, 694
Egorova, L. A. - 507
Egorova, S. A. - 594, 736, 890
Elinov, N. P. - 339
El'-Registan, G. I. - 402
Eremenko, V. V. - 6, 214
Evlakhova, A. A. - 105
Evreinova, T. N. - 671
Ezephchuk, Yu. V. - 396

F

Fateev, A. I. - 805
Fateeva, M. V. - 162, 842
Fedenko, E. P. - 94
Fedorov, V. D. - 739
Fedorova, T. A. - 821
Feniksova, R. V. - 858

Feofilova, E. P. - 266, 389
Fetusova, I. V. - 536
Filippova, M. S. - 539
Fluer, F. S. - 396
Fomichev, Yu. K. - 438

G

Galkina, T. B. - 557
Gamulya, G. D. - 686
Gareishina, A. Z. - 912
Gauze, G. F. - 797
Gavrilov, V. Yu. - 536
Gavrilova, N. N. - 276
Gebgardt, A. G. - 380
Generalova, T. G. - 667
Gerasimova, N. M. - 531, 675,
886
Gesheva, R. L. - 121, 594
Girdzijauskas, V. I. - 190
Gol'braikht, A. I. - 125
Golovei, F. A. - 791
Golub, E. I. - 116, 438, 921
Gomenyuk, L. A. - 585
Gorskaya, S. V. - 75
Goryunova, S. V. - 343
Grachev, Yu. P. - 719, 828
Gracheva, I. M. - 276
Grechushkina, N. N. - 554, 849
Grigorov, V. S. - 758
Groshev, V. V. - 248
Gulanyan, S. A. - 225
Gusev, M. V. - 43, 484, 752,
802
Guzhova, E. P. - 682

I

Il'ina, L. D. - 385
Il'ina, T. V. - 352, 643
Ilyaletdinov, A. N. - 195
Ilyasova, V. B. - 402
Imshenetskii, A. A. - 23, 294,
358, 410, 462, 464, 469, 502,
603, 686, 701, 869
Ivanov, I. D. - 626

Ivanova, N. P. - 58, 678
Ivkina, N. S. - 585
Ivoilov, V. S. - 43

J

Jakobson, U. A. - 184
Jankjavicius, K. K. - 190

K

Kachan, A. F. - 565
Kalakutskii, L. V. - 79, 589
Kaleya, É. Ya. - 630
Kamyshko, O. P. - 714
Karasevich, Yu. N. - 649, 917
Karavaiko, G. I. - 744, 833
Karnaukhova, E. A. - 950
Kasumova, S. A. - 565
Kasymova, G. A. - 335
Kazak, A. A. - 517
Kazakov, G. A. - 842
Kazanskaya, T. B. - 369, 525, 882
Khanina, M. F. - 442
Khmel', I. A. - 241
Khokhlova, Yu. M. - 517, 731
Khudyakova, A. I. - 321
Kirikova, N. N. - 12
Kirillova, N. F. - 430
Kirsanov, A. V. - 758
Kiva, É. V. - 385
Kochkina, Z. M. - 112
Koleshko, O. I. - 909
Kolesnikov, A. A. - 48
Kolesnikova, I. G. - 517
Kolesnikova, N. A. - 75
Kondrat'eva, E. N. - 17, 484, 661
Kondrat'eva, T. F. - 23
Konev, Yu. E. - 714
Konoplev, E. G. - 450
Korenyako, A. I. - 731, 890
Korn, M. Ya. - 442, 944
Korotyaev, A. I. - 636
Korzhenevskaya, T. G. - 752
Kosikov, K. V. - 950
Koskalenko, L. M. - 309
Kotelev, V. V. - 200, 258, 675, 886
Kovalenko, N. K. - 565
Kovalevich, L. S. - 276
Kovalevskaya, I. D. - 682
Kozlova, V. Kh. - 364, 389
Krasil'nikov, N. A. - 79, 107, 303, 402, 426, 562, 589, 731, 736, 890

Kretovich, V. L. - 166, 667
Kriss, A. E. - 131, 313, 778, 957
Kruglov, Yu. V. - 139
Krylov, I. F. - 554
Ksandopulo, G. B. - 690
Ksheminskaya, G. P. - 280
Kucheras, R. V. - 380
Kudryavtsev, V. I. - 467, 969
Kuimova, T. F. - 107, 426
Kukain, R. A. - 184
Kulatunga, R. A. - 939
Kulikova, A. N. - 512
Kuraishi, Kh. - 107, 426
Kurella, G. A. - 225
Kurilova, I. I. - 438
Kushnarev, V. M. - 761
Kuznetsov, V. D. - 786, 963
Kvasnikov, E. I. - 206, 565

L

Lanskaya, L. N. - 898
Lapotyshkina, A. I. - 953
Larikova, G. A. - 262
Laska, D. V. - 380
Lebedeva, E. K. - 237, 557
Levitov, M. M. - 75, 288
Li Kim Bang - 656
Lirova, S. A. - 783
Loginov, I. A. - 842
Loginova, L. G. - 36, 507, 682
Lopez, L. Erraiz - 294
Lushchik, T. A. - 828
L'vov, N. P. - 166
Lysenko, A. M. - 603
Lysenko, S. V. - 410, 603, 686, 869

M

Makhmudova, É. M. - 671
Maksimov, V. N. - 507
Maksimova, I. V. - 237, 557
Maksimova, R. A. - 576
Maksudov, T. U. - 343
Malofeeva, I. V. - 67, 661
Mamaev, A. V. - 795
Marchenko, I. V. - 736, 890
Mardashev, S. R. - 6, 214
Marshavina, Z. V. - 173
Martirosova, L. A. - 791
Meleshko, G. I. - 237, 557
Metelkin, A. I. - 634, 640

Metelkin, O. A. - 634
Milekhina, E. I. - 626
Milenushkin, Yu. I. - 455
Mil'ko, E. S. - 58, 678
Mirchink, T. G. - 327
Mironova, S. N. - 731
Mishustin, E. N. - 156
Misnik, A. G. - 446
Mitskevich, I. N. - 957
Mizovtsova, L. F. - 909
Morozova, T. N. - 694
Moskalenko, L. N. - 434
Moskovets, S. N. - 815
Musaev, Sh. M. - 202

N

Nadirova, I. M. - 162, 973
Naplekova, N. N. - 547
Nazarova, T. S. - 621
Nefelova, M. V. - 539
Nesterenko, O. A. - 565
Nesterova, G. F. - 600, 765
Nikitin, I. E. - 621
Nikitina, K. A. - 752
Nikitina, T. N. - 842
Nikolaev, A. Ya. - 6
Nikolaeva, S. A. - 71
Nikolyuk, V. F. - 202
Novikova, S. I. - 27
Novozhilova, M. I. - 778
Nozhevnikova, A. N. - 479, 872

O

Odoevskaya, N. S. - 349
Oparin, V. N. - 842
Orlova, G. G. - 438
Ostrovskii, N. I. - 54

P

Pakhomova, M. V. - 837
Pal'mova, N. P. - 576
Pankratov, A. Ya. - 758
Panosyan, A. K. - 173
Panov, V. P. - 758
Pariiskaya, A. N. - 294
Paromenskaya, L. N. - 139
Paushkin, Ya. M. - 554
Pavlova, I. V. - 98
Penzikova, G. A. - 288
Perschina, Z. G. - 98
Petina, T. A. - 791
Petrova, L. I. - 551

Pimenova, M. N. - 237, 557, 854
 Pinevich, A. V. - 542
 Piskunkova, N. F. - 854
 Platonov, A. L. - 36
 Podolyan, L. A. - 714
 Polkhovskii, V. A. - 489
 Poltorak, V. A. - 551
 Popova, L. S. - 701
 Popova, N. V. - 358, 502
 Pozmogova, I. N. - 36
 Proskuryakova, N. S. - 252

R

Rabotnova, I. L. - 233, 554, 783
 Rakhleeva, E. E. - 626
 Rapoport, I. A. - 585
 Rautenshtein, Ya. I. - 112, 152, 309, 434, 594, 925
 Razumovskii, P. N. - 200
 Reshetnikov, V. N. - 921
 Romanenko, V. I. - 617
 Romanova, A. K. - 479, 872
 Rovinskaya, A. Ya. - 572
 Rozanova, E. P. - 321
 Rubin, L. B. - 229
 Rudaya, S. M. - 87
 Rumba, A. A. - 898
 Runov, V. I. - 202
 Ryabinin, I. F. - 714
 Ryabushko, T. A. - 413
 Ryzhakova, V. G. - 858

S

Safonov, V. I. - 71
 Sakharova, Z. V. - 783
 Salmanov, M. A. - 606
 Samoilenko, I. I. - 98
 Samtsevich, S. A. - 179
 Sanzhieva, É. U. - 711
 Satdykov, Sh. I. - 562
 Sazykin, Yu. O. - 799
 Senyukov, V. M. - 612
 Seregina, L. M. - 682
 Sergeeva, L. N. - 517
 Shalagina, A. I. - 54
 Shanina, N. A. - 48, 837
 Shavlovskii, G. M. - 280

Shcherbakov, L. A. - 450
 Shcherbakova, E. Ya. - 898
 Shenderova, L. V. - 484
 Shestakov, S. V. - 248
 Shetakhonova, N. M. - 827
 Shevchenko, A. M. - 147
 Shishenina, E. P. - 612
 Shmygun, M. P. - 520
 Shul'govskaya, E. M. - 233
 Shulo, Sh. - 1
 Shvetsova, N. N. - 864
 Shvinka, Yu. É. - 229
 Sidorenko, O. D. - 905
 Silaev, A. B. - 551
 Sivacheva, T. A. - 719
 Skalozub, N. G. - 107
 Skryabin, G. K. - 32
 Smirnova, I. P. - 581
 Smirnova, T. A. - 761
 Smolyanskaya, A. Z. - 770
 Soifer, V. N. - 930
 Sokolov, A. A. - 426
 Sokolova, I. P. - 339
 Solov'eva, N. K. - 87
 Solov'eva, Zh. V. - 94, 793
 Sorokin, Yu. I. - 133, 220
 Sotnikov, G. G. - 23, 626, 686, 869
 Sukharevich, V. I. - 864
 Surovtseva, É. G. - 697, 877
 Suvorov, N. N. - 32
 Sviridovskaya, L. N. - 385
 Svishchuk, A. A. - 520

T

Taldykina, N. N. - 612
 Tarasevich, V. F. - 413T
 Tarvidas, I. I. - 190
 Terent'ev, A. A. - 416
 Tereshin, I. M. - 572
 Toropova, E. G. - 694
 Troshanov, É. P. - 795
 Tsaplina, I. A. - 507, 682
 Tsyganov, V. A. - 714, 864
 Tubol'tsev, A. K. - 828
 Tumanyan, M. A. - 98

V

Varivoda, M. I. - 280
 Vasilenko, G. D. - 27

Veher, A. S. - 512
 Vedenina, I. Ya. - 479, 872
 Veselov, I. Ya. - 276
 Vinogradova, K. A. - 551
 Vishnyakova, T. P. - 554
 Vlasova, I. D. - 554
 Vogrin, A. G. - 380
 Voino, L. I. - 719
 Volarovich, M. P. - 416
 Voronina, E. G. - 105
 Vostrov, I. S. - 369
 Voznyakovskaya, Yu. M. - 474
 Vuchetich, I. - 369
 Vypiyach, A. N. - 283

Y

Yakobson, Yu. O. - 630
 Yakovleva, E. P. - 864
 Yangulova, I. V. - 786, 963
 Yulbarisov, É. M. - 612
 Yusupova, D. V. - 912

Z

Zaikina, A. I. - 953
 Zaitseva, G. N. - 48, 837
 Zakhvataeva, N. V. - 661
 Zalashko, M. V. - 179
 Zapadnaya, A. A. - 600, 765
 Zaprometova, K. M. - 327
 Zavarzin, G. A. - 148, 460
 Zeile, M. - 630
 Zelinka, Ya. - 1
 Zeltin', R. P. - 494, 724
 Zemlyakov, V. L. - 973
 Zharikova, G. G. - 283
 Zhdanova, N. N. - 520
 Zhdan-Pushkina, S. M. - 542
 Zhilina, T. N. - 707, 817
 Zhukova, A. I. - 364
 Zhukova, R. A. - 422
 Zhunaeva, V. V. - 309
 Zimenko, T. G. - 446
 Zobnina, V. P. - 894
 Zubets, T. P. - 774
 Zvenigorodskii, V. I. - 116, 438
 Zvyagintsev, D. G. - 143, 327

MICROBIOLOGY

Volume 39, Numbers 1-6, 1970

(A translation of Mikrobiologiya)

Engl./Russ.

Volume 39, Number 1

January-February, 1970

The Role of Biotin in the Metabolism of <u>Streptomyces aureofaciens</u> - Sh. Shulo and Ya. Zelinka	1	5
Identification of <u>Pseudomonas</u> sp. and Influence of the Conditions of Culturing on the Asparaginase and Glutaminase Activity - S. R. Mardashev, V. V. Eremenko, and A. Ya. Nikolaev	6	11
Properties of Two Strains of <u>Pseudomonas</u> Utilizing One-Carbon Compounds - N. N. Kirikova	12	18
Assimilation of Acetate by <u>Rhodopseudomonas palustris</u> - I. I. Chernyad'ev, E. N. Kondrat'eva, and N. G. Doman	17	24
Content of ATP in the Cells of a Polyploid <u>Candida scottii</u> Strain - A. A. Imshenetskii, T. F. Kondrat'eva, and G. G. Sotnikov	23	30
Initial Stages of Sucrose Decomposition by <u>Cladosporium</u> sp. - S. I. Novikova, A. A. Bondarchuk, and G. D. Vasilenko	27	35
Enzymic Transformation of Tryptamine by Fungi - T. P. Dvornikova, G. K. Skryabin, and N. N. Suvorov	32	42
Thermogenesis by <u>Candida tropicalis</u> in Relation to Cultivation Conditions - A. L. Platonov, I. N. Pozmogova, and L. G. Loginova	36	47
Response to Molecular Oxygen in Some Members of the <u>Clostridium</u> Genus - L. G. Azova, M. V. Gusev, and V. S. Ivoilov	43	55
Investigation of the "Nuclear" Material from Cells of <u>Azotobacter vinelandii</u> - N. A. Shanina, A. A. Kolesnikov, and G. N. Zaitseva	48	60
On the Composition of Alkaloids Produced by <u>Claviceps purpurea</u> Tul. - A. I. Shalagina, A. N. Ban'kovskaya, and N. I. Ostrovskii	54	67
Effect of Medium Composition and Culture Conditions on Flavin Synthesis by <u>Mycobacterium Lacticolum</u> Strain 104 - E. S. Mil'ko and N. P. Ivanova	58	71
Oleic Acid as Carbon Source for Growth of <u>Blakeslea trispora</u> and for Biosynthesis of Carotinoids and Lipids - M. N. Bekhtereva and E. G. Dedyukhina	63	77
Effect of Carbon Source on the Amino Acid Content of Proteins of Photosynthetic Bacteria - I. V. Malofeeva and L. P. Belyanova	67	82
Soluble-Protein Complex Occurring in the <u>Clostridium perfringens</u> Cell - S. A. Nikolaeva and V. I. Safonov	71	87
Mycelium Composition of <u>Actinomyces streptomycini</u> Grown on a Synthetic Medium with Glucose or Starch - M. M. Levitov, N. A. Kolesnikova, and S. V. Gorskaya	75	91
A Study of the Morphology of Two Cultures Belonging to the Genus <u>Micropolyspora</u> - L. A. Dorokhova, N. S. Agre, L. V. Kalakutskii, and N. A. Krasil'nikov	79	95
Slimy Structures in Some Actinomycetes of the <u>Actinomyces hygroscopicus</u> Type - S. M. Rudaya and N. K. Solov'eva	87	101
Ultrafine Cell Structure of the Parent Strain and the Pigmented Mutant of <u>Rhodopseudomonas palustris</u> - Zh. V. Solov'eva and E. P. Fedenko	94	109
Modification of Properties of Staphylococci after Repeated Gamma Irradiation - M. A. Tumanyan, Z. G. Pershina, I. V. Pavlova, and I. I. Samoilenko	98	112

Staining of Fat Inclusions in Entomophthoraceous Fungi (Entomophthoraceae, Phycomycetes) with a Pigment from <i>Serratia marcescens</i> Bizio – A. A. Evlakhova and E. G. Voronina	105	118
On the Antiphage Substance Isolated from <i>Actinomyces globisporus</i> – Kh. Kuraishi, T. F. Kuimova, N. G. Skalozub, and N. A. Krasil'nikov	107	120
Infectivity of <i>Actinomyces streptomycini</i> Krass. Antiphage DNA for Protoplasts of this <i>Actinomyces</i> – Z. M. Kochkina and Ya. I. Rautenshtein.	112	125
Inhibition of the Reproduction of rII Mutants of T-Even Phages in <i>Escherichia coli</i> Lysogenic for Phage 299 – E. I. Golub and V. I. Zvenigorodskii.	116	129
Lysogeny of <i>Actinomyces leucophaeus</i> – R. L. Gesheva	121	134
Thionic Bacteria in the Oxidation of Sulfide Ores of Some Beds in East Kazakhstan – A. I. Gol'braikht	125	139
Vertical Distribution of Heterotrophic Bacteria in Open Deep-Water Areas of Lake Baikal – A. E. Kriss and E. I. Chebotarev.	131	146
Determination of the Activity of Heterotrophic Microflora in the Ocean Using ^{C14} -Containing Organic Matter – Yu. I. Sorokin	133	149
Detoxication of Simazine by Microscopic Algae – Yu. V. Kruglov and L. N. Paromenskaya	139	157
Growth of Microorganisms in Thin Capillaries and Films – D. G. Zvyagintsev.	143	161
How to Facilitate Work with a Micromanipulator – A. M. Shevchenko.	147	166
REVIEWS		
Hans G. Schlegel. Allgemeine Mikrobiologie – Reviewed by G. A. Zavarzin	148	168
EVENTS		
Semen Nikitovich Moskovets (On His 70th Birthday). :	150	170
Preparation of Highly Active and Phage-Resistant Entomopathogenic Bacteria – Ya. I. Rautenshtein.	152	172
Third Congress Devoted to the Preservation of Fodder and to Grasslands – E. N. Mishustin	156	175
First International Conference on Culture Collections – L. A. Belyakova, I. M. Nadirova, and M. V. Fateeva	162	179
Vyacheslav Il'ich Lyubimov (Obituary) – V. L. Kretovich and N. P. L'vov	166	183

Volume 39, Number 2 March-April, 1970

Centenary of the Birth of Vladimir Il'ich Lenin (1870-1970)	167	189
Achievements of General and Applied Microbiology in Armenia during the Years of Soviet Power – A. K. Panosyan and Z. V. Marshavina	173	196
Microbiological Science in Belorussia during the Years of Soviet Power – S. A. Samtsevich and M. V. Zalashko	179	203
Main Direction in the Development of Microbiology in Soviet Latvia – R. A. Kukain and U. A. Jakobson	184	209
Microbiological Science in the Lithuanian SSR – V. I. Girdzijauskas, K. I. Brundza, I. I. Tarvidas, and K. K. Jankjavicius.	190	217
Microbiology in Kazakhstan in the Soviet Era – A. N. Ilyaletdinov	195	223
Development of Microbiology in the Moldavian SSR – V. V. Kotelev and P. N. Razumovskii	200	229
The Development of Microbiology in Uzbekistan – S. A. Askarova, Sh. M. Musaev, V. F. Nikolyuk, and V. I. Runov	202	232
The Development of Microbiology in the Ukraine after the Great October Revolution – E. I. Kvasnikov	206	237
The Effects of pH, Aeration, and Temperature of the Histidinedecarboxylase Activity of <i>Micrococcus</i> Sp. N. – V. V. Eremenko and S. R. Mardashev.	214	247

The Mechanism of Chemical and Biological Oxidation of Sodium, Calcium, and Iron Sulfides – Yu. I. Sorokin	220	253
Potentiometric Investigation of the Dynamics of the Photooxidation of Sulfide by Photosynthesizing Bacteria – S. A. Gulanyan and G. A. Kurella.	225	259
The Kinetics of Photoinduced Transformations of Cytochromes in <i>Ectothiorhodospira shaposhnikovii</i> – L. B. Rubin, V. N. Dubrovin, N. P. Adamova, and Yu. É. Shvinka	229	264
Inhibition of the Growth of <i>Candida utilis</i> by H^+ and OH^- Ions – E. A. Andreeva, E. M. Shul'tgovskaya, and I. L. Rabotnova	233	269
Dynamics of the Quantitative Changes in the Extracellular Organic Substances during Prolonged Culturing of <i>Chlorella</i> Sp. K – M. N. Pimenova, I. V. Maksimova, G. I. Meleshko, and E. K. Lebedeva	237	274
Kinetics of Oxygen Consumption by Cells of <i>Azotobacter vinelandii</i> in Batch and Continuous Cultivation – N. B. Andreeva and I. A. Khmel'	241	280
Regulation of Tricarboxylic Acid Cycle Enzyme Activity in <i>Bacillus brevis</i> G.-B – S. V. Shestakov and V. V. Groshev	248	288
Microbiological Detoxication of Dendrodochine – V. I. Bilai and N. S. Proskuryakova	252	293
Composition of the Lipids from Mycobacteria – A. T. Donets, V. V. Kotelev, and M. N. Bekhtereva	258	300
Effect of Ionizing Radiation on Composition of Yeast Lipids – G. A. Larikova	262	305
Conditions of Formation of Trisporic Acids in Combined Cultures of (+) and (–) Strains of <i>Blakeslea trispora</i> – E. P. Feofilova	266	309
Conditions of the Biosynthesis of Ubiquinone-8 and Vitamin K_2 by <i>Serratia marcescens</i> – A. M. Bezborodov and T. S. Chermenskaya.	271	316
Influence of the Temperature of Fermentation on the Formation of Higher Alcohols by Yeasts <i>Saccharomyces carlsbergensis</i> – I. M. Gracheva, I. Ya. Veselov, N. N. Gavrilova, and L. S. Kovalevich	276	322
Formation of Substantial Amounts of Riboflavin by Certain Species of Yeasts of the Genus <i>Debaryomyces</i> – G. M. Shavlovskii, G. P. Ksheminskaya, and M. I. Varivoda	280	327
Free Amino Acids and the Gramicidin S Content during the Germination of Spores of the R-Variant of <i>Bacillus brevis</i> – N. S. Egorov, A. N. Vypiyach, and G. G. Zharikova	283	331
Transamidinase Activity in Connection with Streptomycin Biosynthesis – G. A. Penzikova and M. M. Levitov	288	337
Experimental Production of Mutants of <i>Rhizobium meliloti</i> with Increased Activity – A. A. Imshenetskii, A. N. Pariiskaya, and L. Erraiz Lopez	294	343
Ultrastructure of <i>Gallionella filamenta</i> – V. V. Balashova and N. E. Cherni	298	348
Morphology and Development of <i>Caulobacter</i> – N. A. Krasil'nikov and S. S. Belyaev	303	352
An Electron-Microscopic Investigation of Actinophages of a Polylysogenic Culture of <i>Actinomyces spheroides</i> – Ya. I. Rautenshtein, L. N. Moskalenko, and V. V. Zhunaeva.	309	358
Ecological-Geographic Patterns in the Distribution of Heterotrophic Bacteria in the Atlantic Ocean – A. E. Kriss	313	362
Purple Bacteria in the Oil Strata of Apsheron Peninsula – E. P. Rozanova and A. I. Khudyakova.	321	372
Satellite Fungi of Manganese-Oxidizing Bacteria – T. G. Mirchink, K. M. Zaprometova, and D. G. Zvyagintsev	327	379

Effect of Ristomycin and Vancomycin on Plasma Membrane Permeability and P^{32} Incorporation into Various Cell Fractions in <i>Staphylococcus aureus</i> 209-P – T. A. Dormidoshina	331	389
---	-----	-----

Intracellular Conversion Products of Glucose in <u>Actinomyces longissimus rameus</u> -G. A. Kasymova and M. N. Bekhtereva.	335	394
Biosynthesis of ¹⁴ C-Labeled Polysaccharides by Cells of <u>Candida tropicalis</u> -N. P. Elinov, I. P. Sokolova, and G. E. Arkad'eva.	339	399
Molybdenum Requirements of Certain Nitrogen-Fixing Blue-Green Algae -S. V. Goryunova and T. U. Maksudov.	343	403
The Use of Light Filters of a Wide Spectral Range in the Culturing of <u>Chlorella vulgaris</u> -N. S. Odoevskaya.	349	410
The Exonuclease of <u>Penicillium chrysogenum</u> -S. I. Bezborodova, M. B. Bazenkova, and T. V. Il'ina.	352	414
Biosynthesis of Proteinase by <u>Aspergillus terricola</u> on Media with Organic Nitrogen Compounds-A. A. Imshenetskii and N. V. Popova.	358	421
Formation of Cholesterol Oxidase by Certain Microorganisms-A. I. Zhukova and V. Kh. Kozlova.	364	428
Searches for Producers of Dicarboxylic Amino Acids and Their Amides-I. Vuchetich, T. B. Kazanskaya, and I. S. Vostrov.	369	434
Conditions of Culturing <u>Aerobacter cloacae</u> Favorable for the Formation of Valine -A. P. Chulkova.	374	440
The Interrelationship of Nitrogen Metabolism with the Cobamide Synthetic Ability of <u>Propionibacterium shermanii</u> -A. G. Gebgardt, R. V. Kucheras, D. V. Laska, and A. G. Vogrin.	380	447
Fat Biosynthesis by Yeast-like Fungi of the Genus <u>Trichosporon</u> in Submerged Culturing-L. D. Il'ina, É. V. Kiva, and L. N. Sviridovskaya.	385	453
Influence of Certain Stimulators and Pyridine Derivatives on Carotenoid Biosynthesis by the (-) Strain of <u>Blakeslea trispora</u> -E. P. Feofilova, M. N. Bekhtereva, and Yu. I. Kozlova.	389	457
Formation of Lecithinase by <u>Bacillus cereus</u> -F. S. Fluier and Yu. V. Ezepechuk.	396	465
Infrared Spectra of Intact Cells of <u>Actinomyces</u> , <u>Proactinomyces</u> , and <u>Mycobacterium</u> -N. A. Krasil'nikov, G. I. El'-Registan, V. B. Ilyasova, and N. S. Agre.	402	471
The Effect of High Vacuum on Oxidative Processes of <u>Sarcina flava</u> and <u>Bacillus</u> <u>simplex</u> -A. A. Imshenetskii and S. V. Lysenko.	410	480
The Use of Serological Reactions to Compare the Amylase from <u>Actinomyces</u> <u>aureofaciens</u> with Amylases of Different Origins-T. A. Ryabushko and V. F. Tarasevich.	413	484
New Forms of Microorganisms and Their Distribution in Natural Peats -M. P. Volarovich and A. A. Terent'ev.	416	488
Anastomoses in <u>Actinomyces</u> sp. nov.-R. A. Zhukova.	422	495
Morphological Changes of Certain Microorganisms Effected by Antibiotic 81A Isolated from <u>Actinomyces globisporus</u> -Kh. Kuraishi, T. F. Kuimova, A. A. Sokolov, and N. A. Krasil'nikov.	426	499
Difference in Pigment Complexes of <u>Proactinomyces</u> , <u>Mycobacterium</u> , and <u>Mycococcus</u> of the Red-Orange Group-N. F. Kirillova.	430	503
Defective Lysogeny among Certain Cultures of <u>Rhizobium meliloti</u> -Ya. I. Raumenshtein and L. N. Moskalenko.	434	507
Selective Inhibition of Cytokinesis as a Result of Lysogenization-E. I. Golub, V. I. Zvenigorodskii, I. I. Kurilova, G. G. Orlova, and Yu. K. Fomichev.	438	512
Tetracycline Binding by Sensitive and Resistant <u>Escherichia coli</u> Cells Studied by Luminescence Microscopy-M. Ya. Korn and M. F. Khanina.	442	517
Effect of Ground-Water Level on Ammonification and Nitrification in Peat Bog Soils -T. G. Zimenko and A. G. Misnik.	446	522
Effect of Various Enzyme Preparations on Microbiological and Biochemical Properties of Silage-E. G. Konoplev and L. A. Shcherbakov.	450	527
I. I. Mechnikov (E. Metchnikoff) and His Place in the History of Microbiology (to His 125th Anniversary)-Yu. I. Milenushkin.	455	533

REVIEWS

E. S. Smirnov, Taxonomic Analysis—Reviewed by G. A. Zavarzin	460	537
Peter Hepple (editor), Microbiology—Reviewed by A. A. Imshenetskii	462	538

CHRONICLES

Second Bulgarian Microbiological Congress—A. A. Imshenetskii	464	540
Work of the Dutch Collection of Fungous Cultures—V. I. Kudryavtsev and L. A. Belyakova	467	542
Third Global Impact of Applied Microbiology—A. A. Imshenetskii	469	543
Symposium on Methods of Microbiological Stimulation of Plant Growth and Development —Yu. M. Voznyakovskaya	474	547
Leonilla Dmitrievna Shturm	477	550

Investigation of Products of Short-Term Chemosynthesis and Certain Enzymes of the Reductive Pentose Phosphate Cycle in Hydrogen Bacteria, <u>Hydrogenomonas eutropha</u> —A. K. Romanova, I. Ya. Vedenina, and A. N. Nozhevnikova	479	557
Influence of the Oxygen Concentration on the Growth and Survival of Photosyn- thesizing Bacteria—M. V. Gusev, L. V. Shenderova, and E. N. Kondrat'eva	484	562
Lecithinase Activity of <u>Bacillus cereus</u> Strains Isolated from Various Natural Sources—V. A. Polkhovskii	489	567
Influence of the Nutrient Medium on the Biosynthesis of Cellulolytic Enzymes of the Thermotolerant Fungus <u>Aspergillus terreus</u> —R. P. Zeltin'	494	574
Influence of Carbohydrates on Proteinase Biosynthesis by <u>Aspergillus terricola</u> under Conditions of Submerged Culturing—A. A. Imshenetskii and N. V. Popova	502	583
Activation of Growth and Proteinase Biosynthesis in the Thermophilic Bacterium <u>Bacillus brevis</u> —L. G. Loginova, L. A. Egorova, I. A. Tsaplina, and V. N. Maksimov	507	588
Influence of Citral on Carotenoid Synthesis by <u>Rhodotorula gracilis</u> —A. S. Vecher and A. N. Kulikova	512	594
Qualitative Composition of the Pigments of Fluorescent Bacteria Producing Keto Acids and Belonging to the Genus <u>Pseudomonas</u> —I. G. Kolesnikova, M. N. Bekhtereva, Yu. M. Khokhlova, L. N. Sergeeva, and A. A. Kazak	517	599
The Protective Effect of the Pigment Isolated from the Fungus <u>Cladosporium sp.</u> —N. N. Zhdanova, A. A. Svishchuk, M. P. Shmygun, and A. I. Bondar'	520	603
Metabolism in <u>Aerobacter cloacae</u> on Media Stimulating Acetoin Formation —A. P. Chulkova and T. B. Kazanskaya	525	608
Formation of Lipids and Their Composition in <u>Blakeslea trispora</u> in the Presence of Hydrocarbons in the Medium—N. M. Gerasimova and M. N. Bekhtereva	531	616
Induction of Colicin E ₁ Synthesis by Bruneomycin and N-methyl-N'-nitro-N-Nitroso- guanidine—S. L. Bogdanova, I. V. Fetusova, and V. Yu. Gavrilov	536	622
Some Enzymatic Properties of Producers of the Actinomycin Complex of Aurantine —M. V. Nefelova and M. S. Filippova	539	626
Relationship between the Antibacterial Activity, Sorbability, and Reversibility of the Action of Histones—I. P. Ashmarin, S. M. Zhdan-Pushkina, and A. V. Pinevich	542	629
Assimilation of Boron by Cellulose-Decomposing Microorganisms—N. N. Naplekova and A. P. Anikina	547	634
Study of the Luminescent Substances from <u>Actinomyces griseocastaneus</u> Krass —V. A. Poltorak, K. A. Vinogradova, L. I. Petrova, and A. B. Silaev	551	638

Inhibition of the Growth of Microorganisms on Hydrocarbon Media by Quaternary Ammonium Salts – I. L. Rabotnova, Ya. M. Paushkin, T. P. Vishnyakova, N. N. Grechushkina, Z. A. Avakyan, I. D. Vlasova, and I. F. Krylov.	554	642
Microflora in a Culture of <i>Chlorella K</i> with Prolonged Cultivation in a Rotation-Type Apparatus with Direct Medium Return – M. N. Pimenova, I. V. Maksimova, G. I. Meleshko, E. K. Lebedeva, and T. B. Galkina	557	645
Bacteria of Termites' Intestines – N. A. Krasil'nikov and Sh. I. Satdykov.	562	651
Serological Identification of the Lactic Acid Bacterium <i>Thermobacterium</i> Orla-Jensen – E. I. Kvasnikov, O. A. Nesterenko, S. A. Kasumova, A. F. Kachan, and N. K. Kovalenko	565	654
Effect of Chloramphenicol and Erythromycin on the Transforming Activity of Desoxyribonucleic Acid Isolated from <i>Streptococcus Haemolyticus</i> <i>challis</i> – I. M. Tereshin and A. Ya. Rovinskaya	572	661
Heterokaryosis and Ability of Conidia to Germinate as Related to the Variability of <i>Trichothecium roseum</i> – N. P. Pal'mova and R. A. Maksimova	576	665
Dissociation of <i>Mycobacterium</i> sp. Strain 69, Producer of a Fibrinolytic Agent – N. S. Egorov and I. P. Smirnova	581	671
Mutations and Expression of Characters in <i>Actinomyces streptomycini</i> Krass – L. N. Borisova, N. S. Ivkina, L. A. Gomenyuk, and I. A. Rapoport.	585	675
Electron-Microscopic Study of Spore Formation in <i>Micromonospora vulgaris</i> – L. A. Dorokhova, N. A. Agre, L. V. Kalakutskii, and N. A. Krasil'nikov.	589	680
Lysogeny of an <i>Actinomyces herbiferis</i> Culture and Certain Characteristics of Its Actinophages – Ya. I. Rautenshtein, R. L. Gesheva, and S. A. Egorova	594	685
Influence of Mg^{2+} Cations and Polyamines on the Reproduction of <i>rII^{ts}</i> Mutants of T4B Bacteriophage under Nonpermissive Conditions – A. A. Zapadnaya and G. F. Nesterova	600	691
Effect of Lyophilization and High Vacuum on Coliphages – A. A. Imshenetskii, A. M. Lysenko, and S. V. Lysenko	603	694
Microorganisms in Bottom Deposits of the Caspian Sea – V. I. Bagirov and M. A. Salmanov.	606	697
Microbiological Method of Treating a Petroleum Deposit Containing Highly Mineralized Stratal Waters – V. M. Senyukov, É. M. Yulbarisov, N. N. Taldykina, and E. P. Shishenina	612	705
Experimental Study of Bacterial Production in Water and Consumption by <i>Daphnia</i> – V. I. Romanenko	617	711
Methods of Determining the Intensity of Cholesterol Decomposition by Microorganisms – E. F. Efimochkina, T. S. Nazarova, and I. E. Nikitin	621	716
Use of the Luciferin-Luciferase Method for Determining ATP in Cells of <i>Azotobacter vinelandii</i> – E. I. Milekhina, E. E. Rakhleeva, G. G. Sotnikov, and I. D. Ivanov.	626	722

REVIEWS

V. M. Bogdanov, R. S. Bashirova, K. A. Kirova, I. P. Korneev, E. I. Kostrova, L. M. Petrzhikovskaya, A. Ya. Pankratov, and K. A. Svitych. Industrial Microbiology of Food Products – Reviewed by M. E. Beker, É. Ya. Kaleya, M. Zeile, G. K. Diepin'sh, and Yu. O. Yakobson.	630	727
V. M. Bogdanov, R. S. Bashirova, K. A. Kirova, I. P. Korneev, E. I. Kostrova, L. M. Petrzhikovskaya, A. Ya. Pankratov, and K. A. Svitych. Industrial Microbiology of Food Products – Reviewed by A. I. Metelkin and O. A. Metelkin.	634	730
Yu. O. Sazykin. Antibiotics as Inhibitors of Biochemical Processes – Reviewed by A. I. Korotyaev.	636	731
V. T. Emtsev. Principles of Microbiology. in: N. A. Bluket and V. T. Emtsev, Botany with the Principles of Plant Physiology and Microbiology (pp. 396-504) – Reviewed by A. I. Metelkin	640	735

Extracellular Phosphomonoesterases of Fungi Belonging to the Genus <u>Fusarium</u> - S. I. Bezborodova and T. V. Il'ina	643	741
Pentoses and Pentitols as Carbon and Energy Sources for <u>Candida pulcherrima</u> - Yu. N. Karasevich	649	748
Enzymes of the Tricarboxylic Acid Cycle in a Culture of <u>Serratia marcescens</u> - Li Kim Bang	656	755
Nitrogen Fixation Capacity of Photosynthesizing Bacteria - N. V. Zakhvataeva, I. V. Malofeeva, and E. N. Kondrat'eva	661	761
Kinetic Properties of Glutamine Synthetase from Different Yeasts - V. L. Kretovich, T. G. Generalova, and T. L. Auerman	667	767
Free Nucleotides of Thermophilic and Mesophilic Variants of <u>Micromonospora vulgaris</u> - T. N. Evreinova, É. M. Makhmudova, and N. S. Agre	671	771
Dynamics of Various Fractions in the Lipids during the Development of <u>Mycobacterium rubrum</u> and <u>Mycobacterium album</u> - A. T. Donets, N. M. Gerasimova, V. V. Kotlov, and M. N. Bekhtereva	675	776
Dynamics of the Accumulation of Flavins in Cultures of <u>Mycobacterium lacticolum</u> Strain 104 in Media with Various Phosphorus Contents - E. S. Mil'ko and N. P. Ivanova	678	779
Thermophilic Actinomycetes of the Species <u>Micromonospora vulgaris</u> , Active Producers of Amylolytic and Proteolytic Enzymes - L. G. Loginova, I. A. Tsaplina, E. P. Guzhova, E. V. Bolmyanskaya, I. D. Kovalevskaya, and L. M. Seregina	682	784
Effect of High Vacuum on Crystalline Preparations of Catalase, Peroxidase, Cytochrome C, and ATP - A. A. Imshenetskii, S. V. Lysenko, G. G. Sotnikov, and G. D. Gamulya	686	788
Effects of Cortisone, Prednisone, and 20-Dihydroprednisone on Growth of <u>Mycobacterium globiforme</u> 193 - G. B. Ksandopulo	690	792
Influence of Novobiocin on the Oxidative Activity of the Mycelium of Active and Inactive Strains of <u>Actinomyces spheroides</u> - N. S. Egorov, E. G. Toropova, and T. N. Morozova	694	797
Lethal Effects of p-Aminobenzoic Acid on <u>Saccharomyces cartilagenosus</u> - É. G. Surovtseva	697	800
Isolation and Characterization of Microorganisms that Decompose Uric Acid - A. A. Imshenetskii and L. S. Popova	701	805
Isolation of a Lithoheterotrophic Hydrogen-Oxidizing Bacterium - T. N. Zhilina	707	812
Myxobacteria in Cultures of Hydrogen and Co-Oxidizing Organisms - É. U. Sanzhieva	711	817
Identification and Morphological-Cultural Character of Actinomycetes of Antarctica - V. A. Tsyganov, Yu. E. Konev, O. P. Kamyshko, I. F. Ryabinin, and L. A. Podolyan	714	821
Determination of Optimum Cultivation Conditions for <u>Aspergillus oryzae</u> by Mathematical Planning of Experiments - L. I. Voino, Yu. P. Grachev, and T. A. Sivacheva	719	827
Selection of Optimum Medium for Biosynthesis of Cellulolytic Enzymes by <u>Aspergillus terreus</u> 17R by the Steepest Ascent Method - R. P. Zeltin'	724	832
Pigmentary Differentiation of Actinomycetes Classified as <u>Actinomyces galbus</u> - Yu. M. Khokhlova, S. N. Mironova, A. I. Korenyako, and N. A. Krasil'nikov	731	840
Pigments of <u>Actinomyces nigriviridis</u> - S. A. Egorova, I. V. Marchenko, N. O. Blinov, and N. A. Krasil'nikov	736	846
Effect of Growth Conditions on Ultrathin Structure of <u>Chlorobium thiosulfatophilum</u> - Zh. V. Solov'eva and V. D. Fedorov	739	850
Submicroscopic Organization of <u>Thiobacillus ferrooxidans</u> - A. A. Avakyan and G. I. Karavaiko	744	855

Metabolically Active Spheroplasts of Blue-Green Algae – M. V. Gusev, K. A. Nikitina, and T. G. Korzhenevskaya	752	862
Morphology and Physiology of <u>Rhizopus delamar</u> – V. P. Panov, A. V. Kirsanov, V. S. Grigorov, G. G. Azarova, and A. Ya. Pankratov	758	869
Ultrastructure of <u>Bacillus subtilis</u> Cells Producing Alkaline Phosphatase – T. A. Smirnova and V. M. Kushnarev.	761	872
Location and Time of Manifestation of Functional Defect in T4B Phase rII ^{ts} Mutants – G. F. Nesterova and A. A. Zapadnaya	765	876
Effect of Some Antitumor Chemotherapeutic Agents on Transmission of the Episomal Resistance Determinant in Enterobacteria – A. Z. Smolyanskaya	770	882
Effect of Herbicides on Nitrifying Bacteria in Sod-Podzolic Soils – A. I. Chunderova and T. P. Zubets	774	887
Quantitative Distribution of Heterotrophic Bacteria in the Southeastern Atlantic Ocean – A. E. Kriss and M. I. Novozhilova	778	892
Determination of Nitrates and Potassium in Culture Medium by Potentiometric Method – S. A. Lirova, E. A. Andreeva, and I. L. Rabotnova.	783	898
Utilization of Medium Containing Chitin for Isolation and Quantitative Enumeration of Actinomycetes from Soil – V. D. Kuznetsov and I. V. Yangulova	786	902
Seeding Material Obtained by Submerged Cultivation of <u>Aspergillus candidus</u> – D. Dimitrov, T. A. Petina, F. A. Golovei, and L. A. Martirosova	791	907
A Microselector Attachment for Smooth Movement of the Capillary – É. P. Troshanov and A. V. Mamaev	795	911
BOOK REVIEWS		
Organization and Control in Prokaryotic and Eukaryotic Cells – Reviewed by G. F. Gauze	797	914
A. M. Bezhorodov. The Biosynthesis of Biologically Active Substances of Microorganisms – Reviewed by Yu. O. Sazykin	799	915
S. V. Goryunova, G. N. Rzhanova, and V. K. Orleanskii. Blue-Green Algae (Biochemistry, Physiology, Practical Role) – Reviewed by M. V. Gusev.	802	917
M. A. Litvinov. Methods of Investigating Microscopic Soil Fungi – Reviewed by N. A. Cheremisinov and A. I. Fateev	805	920
The Role of Microorganisms in Plant Nutrition and Soil Fertility – Reviewed by L. M. Dorosinskii and V. N. Bylinkina	807	921
CHRONICLES		
Certain Results of Studies at the D. K. Zabolotnyi Institute of Microbiology and Virology of the Academy of Sciences of the Ukrainian SSR – S. N. Moskovets	811	924
Ekaterina Arkad'evna Plevako (Obituary)	815	927

Volume 39, Number 6

November-December, 1970

Litho-Heterotrophic Growth of <u>Hydrogenomonas facilis</u> Z-56 – T. N. Zhilina	817	933
Method of Calculating Amphibolism of Microorganisms Using Hydrogen Bacteria as an Example – T. A. Fedorova	821	937
Optimization of the Cultivation Conditions of <u>Bacillus mesentericus</u> Strain 11-11 Using a Mathematical Model of the Process in the Form of a Power Function – Yu. P. Grachev, A. K. Tubol'tsev, and T. A. Lushchik	828	945
Mechanism of <u>Thiobacillus ferrooxidans</u> Multiplication – G. I. Karavaiko and A. A. Avakyan	833	950
Study of the Chemical Composition of Cells of the Phytoflagellate <u>Astasia longa</u> – M. V. Pakhomova, N. A. Shanina, and G. N. Zaitseva	837	953
"Eutectic Temperature" of Yeast Suspensions during Freezing, Drying, and Lyophilization – M. V. Fateeva, G. A. Kazakov, T. N. Nikitina, I. A. Loginov, and V. N. Oparin	842	958

Some Physiological Characteristics of <u>Mycobacterium laticolum</u> 121 during Growth in a Medium Containing n-Dodecane—N. N. Grechushkina and S. V. Denisova . . .	849	965
Influence of Medium pH and Carbon Dioxide on Assimilation of Some Organic Acids by <u>Scenedesmus quadricauda</u> —N. F. Piskunkova and M. N. Pimenova	854	970
Influence of Medium pH on Production of Amylolytic Enzymes by <u>Aspergillus awamori</u> —R. V. Feniksova and V. G. Ryzhakova	858	974
Growth Inhibition in <u>Bacillus megaterium</u> by H^+ and OH^- Ions—Z. V. Sakharova	861	978
Effect of Aeration and Redox Potential of Medium on Biosynthesis of Levorins A and B—V. I. Sukharevich, E. P. Yakovleva, V. A. Tsyganov, and N. N. Shvetsova	864	981
Effect of High Vacuum on ATP Stability in Microorganisms—A. A. Imshenetskii, S. V. Lysenko, and G. G. Sotnikov	869	986
Incorporation of C^{14} -Carbon Dioxide into Dicarboxylic Amino Acids during Chemosynthesis of <u>Hydrogenomonas eutropha</u> Z-1—A. K. Romanova, A. N. Nozhevnikova, I. Ya. Vedenina, and N. G. Doman	872	990
Accumulation of Shikimic Acid by Yeasts in the Presence of p-Aminobenzoic Acid—É. G. Survtseva	877	996
Conditions of Acetoin Biosynthesis by Cell-Free Extracts of <u>Aerobacter cloacae</u> INMI 30—A. P. Chulkova, T. B. Kazanskaya, and P. A. Agatov	882	1001
Changes in the Fatty Acid Ratio in the Lipid Composition of <u>Mycobacterium rubrum</u> 874 and <u>Mycobacterium album</u> 88 during Their Growth—N. M. Gerasimova, A. T. Donets, V. V. Kotelev, and M. N. Bekhtereva	886	1005
Study of the Pigments of Green Actinomycetes of the <u>Actinomyces iakyrus</u> — <u>Actinomyces flavovariabilis</u> Group—I. V. Marchenko, S. A. Egorova, N. O. Blinov, A. I. Korenyako, and N. A. Krasil'nikov	890	1010
Induction of Pigment Mutations in <u>Mycobacterium carotenum</u> by N-Methyl-N'-Nitro-N-Nitrosoguanidine—V. P. Zobnina and É. N. Astaf'eva	894	1014
Stability of the Properties of <u>Aspergillus niger</u> Mutants Preserved by Different Methods—E. Ya. Shcherbakova, A. A. Rumba, and L. N. Lanskaya	898	1019
Possibility of Selection of Active Strains of <u>Rhizobium</u> According to the Content of Riboflavin and Cobalamin in Pure Cultures—N. M. Shemakhanova and O. D. Sidorenko	905	1026
Biological Properties of the Melanin-Producing <u>Azotobacter chroococcum</u> 2Y and Its Nonpigmented Variant 2Yb—O. I. Koleshko, N. I. Danil'chik, and L. F. Mizovtsova	909	1030
Comparative Study of Deoxyribonuclease Activity of Pigmented Strains of <u>Serratia marcescens</u> and Their Unpigmented Variants—A. Z. Gareishina, D. V. Yusupova, and M. I. Belyaeva	912	1034
Adaptation of Yeast <u>Candida tropicalis</u> (Lobvinskaya 2) to D-Arabinose—Yu. N. Karasevich	917	1040
New Case of Defective Induction of Prophage—E. I. Golub and V. N. Reshetnikova	921	1046
Certain Properties of a Lysogenic Culture of <u>Actinomyces orientalis</u> —Ya. I. Rautenshtein and L. A. Deshchits	925	1051
Reproduction of T4D and T4D _v Phages in Cells of <u>Escherichia coli</u> (Wild Type), and Defective for the System of Dark Repair, and Influence of Caffeine on this Process—V. N. Soifer and Yu. L. Dorokhov	930	1057
Properties of Streptococci Isolated from Milk-Curdling Starters Used in Ceylon—R. A. Kulatunga	939	1067
Effect of Laser Microirradiation on Filamentous Forms of <u>Escherichia coli</u> —M. Ya. Korn and A. A. Chel'nyi	944	1073
Polyploidy in the Unicellular Green Alga <u>Stichococcus</u> sp.—K. V. Kosikov and E. A. Karnaukhova	950	1079
Derivation of Protoplasts from Yeasts of the Genus <u>Candida</u> —A. I. Zaikina and A. I. Lapotyshkina	953	1082
Quantitative Distribution of Heterotrophic Bacteria in the Equatorial-Tropical Zone of the Pacific Ocean Near South America—A. E. Kriss and I. N. Mitskevich	957	1087

	Engl./Russ.	
Actinomyces from Genetic Horizons of Estonian Soils—V. D. Kuznetsov and I. V. Yangulova	963	1095
Effect of Freezing Temperature on Survival of Lyophilized Bacteria—M. V. Danilova and V. I. Kudryavtsev	969	1102
Stability of Characteristic Features of Bacteria Stored under Mineral Oil—I. M. Nadirova and V. L. Zemlyakov	973	1106
INDEX		
Author Index, Volume 39, Numbers 1-6, 1970	979	
Tables of Contents, Volume 39, Numbers 1-6, 1970	983	

